

US-PAT-NO: 5807241

DOCUMENT-IDENTIFIER: US 5807241 A

TITLE: Bendable tube and method for its manufacture

DATE-ISSUED: September 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP
CODE COUNTRY			
Heimberger; Rudolf	Oberderdingen	N/A	N/A
DE			

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP
CODE COUNTRY TYPE CODE			
Richard Wolf GmbH	Knittlingen	N/A	N/A
DE 03			

APPL-NO: 08/ 711834

DATE FILED: September 10, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
DE	195 35 179.7	September 22,
1995		

INT-CL: [06] A61B001/00

US-CL-ISSUED: 600/142;600/139

US-CL-CURRENT: 600/142; 600/139

FIELD-OF-SEARCH: 600/138; 600/19 ; 600/141 ; 600/142 ;
600/144 ; 138/118
; 138/120 ; 138/155 ; 138/166 ; 138/167 ; 138/168

REF-CITED:

PAT-NO		ISSUE-DATE	U.S. PATENT DOCUMENTS PATENTEE-NAME
	US-CL		
3266059	August 1966		Stelle
N/A	600/141	N/A	
4108211	August 1978		Tanaka

L Number	Hits	Search Text	DB	Time stamp
1	784	(403/220,291).CCLS.	USPAT; US-PGPUB	2002/08/12 07:58
2	364	(403/220).CCLS.	USPAT; US-PGPUB	2002/08/12 07:58
3	466	(403/291).CCLS.	USPAT; US-PGPUB	2002/08/12 07:59
4	0	("3 not 2").PN.	USPAT; US-PGPUB	2002/08/12 07:59
5	420	((403/291).CCLS.) not ((403/220).CCLS.)	USPAT; US-PGPUB	2002/08/12 08:01
7	6	((403/291).CCLS.) not ((403/220).CCLS.) and articulation	USPAT; US-PGPUB	2002/08/12 08:03
8	0	((403/291).CCLS.) not ((403/220).CCLS.) and endoscop\$2	USPAT; US-PGPUB	2002/08/12 08:04
9	0	((403/291).CCLS.) not ((403/220).CCLS.) and laproscopic	USPAT; US-PGPUB	2002/08/12 08:04
10	0	((403/220).CCLS.) not ((403/291).CCLS.) and laproscopic	USPAT; US-PGPUB	2002/08/12 08:04
11	0	((403/220).CCLS.) not ((403/291).CCLS.) and endoscop\$2	USPAT; US-PGPUB	2002/08/12 08:07
12	0	((403/291).CCLS.) not ((403/220).CCLS.) and matsuura	USPAT; US-PGPUB	2002/08/12 08:07
13	1738	Matsuura.inv.	USPAT; US-PGPUB	2002/08/12 08:08
14	0	((403/291).CCLS.) not ((403/220).CCLS.) and Matsuura.inv.	USPAT; US-PGPUB	2002/08/12 08:08
15	1	Matsuura.inv. and articulation	USPAT; US-PGPUB	2002/08/12 08:09
16	1	("5143475").PN.	USPAT; US-PGPUB	2002/08/12 08:10
17	1		USPAT	2002/08/12 08:10
18	1		USPAT	2002/08/12 08:10
19	1		USPAT	2002/08/12 08:11
20	1		USPAT	2002/08/12 08:11
21	1		USPAT	2002/08/12 08:12
22	1		USPAT	2002/08/12 08:12
23	1		USPAT	2002/08/12 08:13
24	1		USPAT	2002/08/12 08:13
6	318	((403/220).CCLS.) not ((403/291).CCLS.)	USPAT; US-PGPUB	2002/08/12 08:19
26	114661	articulat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:20
27	7698	articulat\$3 and (surgical or medical or surgery)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:22
28	1408	(articulat\$3 and (surgical or medical or surgery)) and (endoscop\$2 or laproscopic\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:25
29	376	((articulat\$3 and (surgical or medical or surgery)) and (endoscop\$2 or laproscopic\$2)) and (joints or segments)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:53

30	1		USPAT	2002/08/12 08:38
31	1		USPAT	2002/08/12 08:39
32	1		USPAT	2002/08/12 08:40
33	1		USPAT	2002/08/12 08:42
34	1		USPAT	2002/08/12 08:45
35	1		USPAT	2002/08/12 08:45
36	59	(600/140).CCLS.	USPAT; US-PGPUB	2002/08/12 08:58
38	0	("37 not 36").PN.	USPAT; US-PGPUB	2002/08/12 08:58
37	70	(600/141).CCLS.	USPAT; US-PGPUB	2002/08/12 09:36
43	0	("42 not 37").PN.	USPAT; US-PGPUB	2002/08/12 09:36
44	0	("42 not 36").PN.	USPAT; US-PGPUB	2002/08/12 09:36
42	177	(600/139).CCLS.	USPAT; US-PGPUB	2002/08/12 09:40
45	165	((600/139).CCLS.) not ((600/140).CCLS.)	USPAT; US-PGPUB	2002/08/12 09:41
46	148	((600/139).CCLS.) not ((600/140).CCLS.) not ((600/141).CCLS.)	USPAT; US-PGPUB	2002/08/12 09:41

L Number	Hits	Search Text	DB	Time stamp
1	784	(403/220,291).CCLS.	USPAT; US-PGPUB	2002/08/12 07:58
2	364	(403/220).CCLS.	USPAT; US-PGPUB	2002/08/12 07:58
3	466	(403/291).CCLS.	USPAT; US-PGPUB	2002/08/12 07:59
4	0	("3 not 2").PN.	USPAT; US-PGPUB	2002/08/12 07:59
5	420	((403/291).CCLS.) not ((403/220).CCLS.)	USPAT; US-PGPUB	2002/08/12 08:01
7	6	((403/291).CCLS.) not ((403/220).CCLS.) and articulation	USPAT; US-PGPUB	2002/08/12 08:03
8	0	((403/291).CCLS.) not ((403/220).CCLS.) and endoscop\$2	USPAT; US-PGPUB	2002/08/12 08:04
9	0	((403/291).CCLS.) not ((403/220).CCLS.) and laproscopic	USPAT; US-PGPUB	2002/08/12 08:04
10	0	((403/220).CCLS.) not ((403/291).CCLS.) and laproscopic	USPAT; US-PGPUB	2002/08/12 08:04
11	0	((403/220).CCLS.) not ((403/291).CCLS.) and endoscop\$2	USPAT; US-PGPUB	2002/08/12 08:07
12	0	((403/291).CCLS.) not ((403/220).CCLS.) and matsuura	USPAT; US-PGPUB	2002/08/12 08:07
13	1738	Matsuura.inv.	USPAT; US-PGPUB	2002/08/12 08:08
14	0	((403/291).CCLS.) not ((403/220).CCLS.) and Matsuura.inv.	USPAT; US-PGPUB	2002/08/12 08:08
15	1	Matsuura.inv. and articulation	USPAT; US-PGPUB	2002/08/12 08:09
16	1	("5143475").PN.	USPAT; US-PGPUB	2002/08/12 08:10
17	1		USPAT	2002/08/12 08:10
18	1		USPAT	2002/08/12 08:10
19	1		USPAT	2002/08/12 08:11
20	1		USPAT	2002/08/12 08:11
21	1		USPAT	2002/08/12 08:12
22	1		USPAT	2002/08/12 08:12
23	1		USPAT	2002/08/12 08:13
24	1		USPAT	2002/08/12 08:13
6	318	((403/220).CCLS.) not ((403/291).CCLS.)	USPAT; US-PGPUB	2002/08/12 08:19
26	114661	articulat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:20
27	7698	articulat\$3 and (surgical or medical or surgery)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:22
28	1408	(articulat\$3 and (surgical or medical or surgery)) and (endoscop\$2 or laproscopic\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:25
29	376	((articulat\$3 and (surgical or medical or surgery)) and (endoscop\$2 or laproscopic\$2)) and (joints or segements)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:53

30	1		USPAT	2002/08/12 08:38
31	1		USPAT	2002/08/12 08:39
32	1		USPAT	2002/08/12 08:40
33	1		USPAT	2002/08/12 08:42
34	1		USPAT	2002/08/12 08:45
35	1		USPAT	2002/08/12 08:45
36	59	(600/140).CCLS.	USPAT; US-PGPUB	2002/08/12 08:58
38	0	("37 not 36").PN.	USPAT; US-PGPUB	2002/08/12 08:58
37	70	(600/141).CCLS.	USPAT; US-PGPUB	2002/08/12 08:58

L Number	Hits	Search Text	DB	Time stamp
1	784	(403/220,291).CCLS.	USPAT; US-PGPUB	2002/08/12 07:58
2	364	(403/220).CCLS.	USPAT; US-PGPUB	2002/08/12 07:58
3	466	(403/291).CCLS.	USPAT; US-PGPUB	2002/08/12 07:59
4	0	("3 not 2").PN.	USPAT; US-PGPUB	2002/08/12 07:59
5	420	((403/291).CCLS.) not ((403/220).CCLS.)	USPAT; US-PGPUB	2002/08/12 08:01
7	6	((403/291).CCLS.) not ((403/220).CCLS.) and articulation	USPAT; US-PGPUB	2002/08/12 08:03
8	0	((403/291).CCLS.) not ((403/220).CCLS.) and endoscop\$2	USPAT; US-PGPUB	2002/08/12 08:04
9	0	((403/291).CCLS.) not ((403/220).CCLS.) and laproscopic	USPAT; US-PGPUB	2002/08/12 08:04
10	0	((403/220).CCLS.) not ((403/291).CCLS.) and laproscopic	USPAT; US-PGPUB	2002/08/12 08:04
11	0	((403/220).CCLS.) not ((403/291).CCLS.) and endoscop\$2	USPAT; US-PGPUB	2002/08/12 08:07
12	0	((403/291).CCLS.) not ((403/220).CCLS.) and matsuura	USPAT; US-PGPUB	2002/08/12 08:07
13	1738	Matsuura.inv.	USPAT; US-PGPUB	2002/08/12 08:08
14	0	((403/291).CCLS.) not ((403/220).CCLS.) and Matsuura.inv.	USPAT; US-PGPUB	2002/08/12 08:08
15	1	Matsuura.inv. and articulation	USPAT; US-PGPUB	2002/08/12 08:09
16	1	("5143475").PN.	USPAT; US-PGPUB	2002/08/12 08:10
17	1		USPAT	2002/08/12 08:10
18	1		USPAT	2002/08/12 08:10
19	1		USPAT	2002/08/12 08:11
20	1		USPAT	2002/08/12 08:11
21	1		USPAT	2002/08/12 08:12
22	1		USPAT	2002/08/12 08:12
23	1		USPAT	2002/08/12 08:13
24	1		USPAT	2002/08/12 08:13
6	318	((403/220).CCLS.) not ((403/291).CCLS.)	USPAT; US-PGPUB	2002/08/12 08:19
26	114661	articulat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:20
27	7698	articulat\$3 and (surgical or medical or surgery)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:22
28	1408	(articulat\$3 and (surgical or medical or surgery)) and (endoscop\$2 or laproscopic\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:25
29	376	((articulat\$3 and (surgical or medical or surgery)) and (endoscop\$2 or laproscopic\$2)) and (joints or segments)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/12 08:53

30	1		USPAT	2002/08/12 08:38
31	1		USPAT	2002/08/12 08:39
32	1		USPAT	2002/08/12 08:40
33	1		USPAT	2002/08/12 08:42
34	1		USPAT	2002/08/12 08:45
35	1		USPAT	2002/08/12 08:45
36	59	(600/140).CCLS.	USPAT; US-PGPUB	2002/08/12 08:58
38	0	("37 not 36").PN.	USPAT; US-PGPUB	2002/08/12 08:58
37	70	(600/141).CCLS.	USPAT; US-PGPUB	2002/08/12 08:58